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the

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Digital Twins and Robust Design Optimization for Greener Manufacturing of Electrical Machines and Devices

The

Guest Editors:

Message from the Guest Editors

implementation

manufacturing processes

Dr. Tamás Orosz

Dr. David Pánek

- Prof. Dr. Miklos Kuczmann
- Prof. Dr. Anton Rassõlkin

Deadline for manuscript submissions: 15 September 2024 optimization techniques can support the greener manufacturing of electric machines and electrical devices. Topics of interest for this Special Issue include, but are not

and

manufacturing of electrical machines and devices. The Special Issue is open for contributions that show how

modern numerical technologies are integrated and

deployed as Digital Twins and how robust design

are

application

essential

limited to:

- Digital Twins, predictive maintenance, Industry 4.0;
- System-level modelling, multi-domain automatic analysis tools, co-simulations, etc.;
- Advanced modelling (electromagnetic, thermal, NVH, mechanical, EMC, insulation, etc.);
- Advanced models for diagnosis;
- Electromagnetic materials, iron losses, and additional losses;
- Optimization techniques, Advanced testing; Optimization and learning under uncertainty;
- Model-based software development and validation of optimization of electrical machines or electric devices;
- Surrogate and reduced-order modelling of electric machines and electric devices.





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Message from the Editor-in-Chief

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